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ABSTRACT

Research Ideas for the Classroom is a three-volume series of research interpretations for early childhood, middle grades, and high school mathematics classrooms. Each volume looks at research from the perspective of the learner, the content, and the teacher, and chapters are co-authored by a researcher and a teacher. Chapter titles in the high school volume are: (1) Cognitive Issues in Mathematics Education (Lee V. Stiff, Janet L. Johnson, and Mary R. Johnson); (2) Affective Issues in Mathematics Education (Douglas B. McLeod and Michele Ortega; (3) Critical Thinking, Mathematical Reasoning and Proof (Phares G. O'Daffer and Bruce A. Thornquist; (4) Mathematical Problem Solving (James W. Wilson, Maria L. Fernandez, and Nelda Hadaway); (5) Mathematical Symbols and Representatives (Claude Janvier, Catherine Girardon, and Jean-Charles Morand); (6) Improving the General Mathematics Experience (Harold L. Schoen and David Hallas); (7) Advancing Algebra (Sigrid Wagner and Sheila Parker); (8) Restructuring Geometry (William F. Burger and Barbara Culpepper); (9) Teaching and Learning Calculus (Joan Ferrini-Mundy and Darien Lauten); (10) Thinking about Uncertainty: Probability and Statistics (J. Michael Shaughnessy and Barry Bergman); (11) Computing Technology (M. Kathleen Heid and Terry Baylor); (12) Instructional Activities and Decisions (Mary Kim Prichard and Sue Bingaman); (13) Planning and Organizing Curriculum (Karen Brooks and Marilyn Suydam); (14) Inside the Teacher: Knowledge, Beliefs, and Attitudes (Catherine A. Brown and Jayne Baird); (15) Evaluation Issues (Elizabeth Badger, Thomas J. Cooney, and Timothy Kanold); and (16) Teacher as Researcher: What Does It Really Mean? (Nina Kay Lankford). The table of contents for the early childhood and middle grades volumes are included. (MKR)